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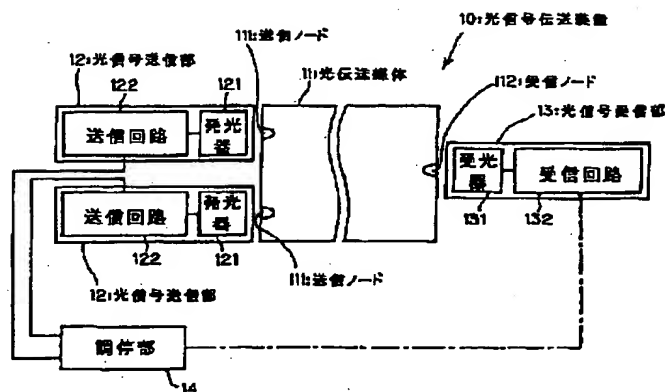
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APPLICANT : FUJI XEROX CO LTD;

INVENTOR : OZAWA TAKASHI;

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TITLE : OPTICAL SIGNAL TRANSMISSION
DEVICE AND ITS METHOD AND
SIGNAL PROCESSOR



ABSTRACT : PROBLEM TO BE SOLVED: To attain connections of many terminals and to improve the degrees of freedom of the communication among these terminals by superimposing and transmitting the optical signals of different light intensity levels through the means of the same optical transmission medium and identifying plural signals of those superimposed signals on the receiving side.

SOLUTION: An optical transmission medium 11 has plural transmission nodes 111 at one optical transmission end to perform the incidence of optical signals to the medium 11 and also has a reception node 112 at the other optical transmission end, to perform the emission of the optical signals which are transmitted through the medium 11. Then the medium 11 transmits the optical signals incident on the nodes 111 to the node 112 and then outputs these signals from the node 112. The optical signal transmitting parts 12 are prepared, corresponding to respective nodes 111 and produce the optical signals to send them into the medium 11 through the corresponding nodes 111. A transmitting circuit 122 produces a pulse string electric signal and a light emitter 121 emits pulse string optical signals, based on the pulse string electrical signals.

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